

Index

A

AGC

- decay code, 9–12
- status display, 3–7

Age, field, 4–9

Air flow

- field, 2–8
- low pressure status, 9–33

Angle, sync mode, 9–13

Antenna

- computer mode, 2–8
- configuration overview, 1–4
- control, 2–1
- control master reset, 9–31
- gain, 9–10
- height, latitude, & longitude, 9–26
- IRIS mode, 2–8
- local mode, 2–8
- local mode status, 9–34
- min/max elevation, 9–27
- position for moving platforms, 9–26
- position mode, 2–4
- repositioning moving speed, 9–54
- shutdown, qant command, 2–10
- Sun Tracking mode, 2–4 , 2–14
- testing, 1–5 , 2–13 , 4–1
- velocity mode, 2–4

AntExport, 11–1

Archive, output device, 9–75

- DVD, 9–76
- large disk archive (LDA), 9–76
- MO disk, 9–76
- tape, 9–76

Ascope utility, 3–1

- recording data, 3–23

Atmospheric attenuation. *See* Gaseous attenuation constant

Attenuation, correction, 9–58

Attenuator code, 9–18

Automatic gain control. *See* AGC

AZ/EL Display, Real Time Display, 8–5

Azimuth

- initial mode for axis, 9–27
- min/max velocity, 9–27
- position indicator, 2–4

B

Beamwidth, 9–10

BITE

- address field, 4–12 , 4–14
- configuration menu, 4–8

Broadcast, IP address, 9–20

Byte count packet, 4–9

C

Cache, read size, 9–62

Calibration

- log receiver, 13–3
- overview, 1–7
- reflectivity
 - automatic, 12–16
 - manual, 12–14
 - zauto7 utility, 12–1
- signal generator, 12–18
- sun cal, 10–1

Centroid value signal, 9–66

Clutter, correction, 9–58

Clutter-to-signal ratio. *See* CSR threshold level

Coherency relationships, 3–38

Color

- conversion for Link output, 9–78
- example values, 5–11
- legend format, 5–7
- palette configuration, 5–10
- saturation, 5–6
- scale select, 5–5 , 5–6
- seam values, 5–7
- set configuration, 5–8
- special configuration, 5–10
- threshold, 5–6

Color Scale, Real Time Display menu, 8–7

Compression, for network output, 9–73

Config, Real Time Display menu, 8–3

Configuring output, Real Time Display, 8–8
Continuous, Wave button, 2–7
Control
 bit, definitions, 9–30
 panel, 2–6
CSR, threshold, 3–13
Customize
 Bitex menu, 4–8
 command, 4–7

D

Data
 truncation height, 9–51
 width, 9–12
Data Selection, Real Time Display, 8–5
DEFAULT.ASCOPE, output file, 3–22
Delete, command, 5–6
Device file, 9–4
Digital, signal simulator, testing with, 3–33
Doppler
 mean velocity, sign check, 3–39
 threshold. *See* SQI threshold
 velocity spectrum plot, 3–19
DSP
 I and Q gain and offset pots, fine
 adjustment, 3–37
 I, Q, LOG gain and offset pots, coarse
 adjustment, 3–35
 parameter computations, 9–51
DspExport, 11–1
Dual-PRF, delay, 9–12

E

Elevation
 initial mode for axis, 9–27
 min/max for antenna, 9–27
 position indicator, 2–4
 soft limits, 2–5
Error
 count field, 2–11
 field, 2–5
 permissible during scans, 9–54
 response to fatal, 9–41

time, 2–11
Example
 color values, 5–11
 open command, 5–3

F

FCAST, maximum time difference, 9–65

G

Gain control, fixed, 3–7
Gaseous attenuation constant, 9–12

H

Hardware name, 9–49
Header, format for extended, 9–52
Help, viewing online documentation, 1–12
Hex ID number field, 4–9

I

I gain and offset pots
 coarse adjustment, 3–35
 fine adjustment, 3–37
I/O
 field, 4–9
 summary menu, 2–10
IAGC, 9–17
Image
 sizing/positioning for Link output, 9–77
 sizing/positioning for Window output, 9–70

Increment, field, 2–6
Inertial Navigation Unit. *See* INU
Ingest
 data source, 9–50
 file space allocation, 9–43
Input
 count field, 2–11
 devices, 9–37
Interface type, 9–4
Interference detection, during noise samples,
 9–56
Interlock, safety status, 9–34
Interlock, field, 2–8

INU, height offset for moving platforms,
9-27
Inverted velocity, 9-12
IQ Hysteresis feedback, 9-18
IQRMS field, field, A/D C, 3-15
IRIS
max number of clients, 9-41
style, 9-49

L

Latitude/longitude, values for antenna, 9-26
LDR, offset, 9-6
Levels command, 5-5
License, features and products, 9-48
Linear
channel, A/D plots vs. range, 3-18
receiver, dynamic range check , 3-37
Link, output device, 9-77
Listing file, 9-3
LOG
channel, A/D plots vs. range, 3-18
receiver
calibration, 13-3
gain and offset pots, coarse adjustment,
3-35

M

Magnetron
current status, 9-34
field, 2-8
Map, outlines, overlay file, 7-12
Memory, mapped I/O, 9-40
Menu, format, 2-3 , 4-3
control panel, 2-6
status panel, 2-8
Movie, length for Window output, 9-70

N

Network
file/filename format, 9-71
files queued for send, 9-65
signal warnings, 9-42
status reports, 9-34

New command, 5-6
Noise
generator control, 9-31
PRF for sample, 9-8
sampling, 9-55
source button, 2-7
toggle period, 9-29

O

Options, pull-down menu
I/O summary command, 2-10
stable platform parameters, 2-10
time set, 2-10
Other-Product, file space allocation, 9-43
Output
bin pattern pulsewidth, 9-15
count field, 2-11
devices
general specifications, 9-68
port number/name, 9-75
Overlay file
creating, 7-20
example, 7-16
format, 7-10
GIF underlay , 7-13
header statements, 7-10
listing and printing, 7-7
map outline statements, 7-12
naming convention, 7-7
text statements, 7-11
underlay statements, 7-13
viewing, 7-8
Overlays, Real Time Display menu, 8-5
Overview, Real Time Display, 8-8

P

Panel, fields, 4-3
Passive IRIS, 9-52
Plot
linear channel A/D vs. range, 3-18
LOG channel A/D vs. range, 3-18
time series, 3-20
Polarization
control in RCP, 9-29

- enabling in ingest, 9-5
- enabling in product generator, 9-62
- status for antenna controller, 9-29
- Position
 - actual, 2-5
 - mode, 2-4
 - requested, 2-5
- Power spectrum window, 9-12
- Pressure, field, 2-8
- PRF, 9-8
- Printer, output device, 9-69
- Printer options, output device type, 9-68
- Priority
 - IRIS processes, 9-45
 - product scheduling, 9-66
 - transmit and receive processes, 9-24
- Processor type, 9-4
- Product
 - generation status, 9-64
 - made from partial Ingest scans, 9-61
 - receive status timeout, 9-64
 - scheduling priority, 9-66
- PROJECTION statement, overlay file, 7-10
- Pulse width change, during noise samples,
9-56
- Pulsewidth
 - control in RCP, 9-29
 - number of, 9-8
 - status for antenna controller, 9-29
 - status/control, 2-9
 - value, 9-15
 - wait time for change, 9-8

Q

- qant command, 2-10

R

- Radar, site ground height, 9-26
- Radar Control Processor, 9-21
- Radar Video Processor, 9-4
- Radiate
 - button, 2-7
 - toggle period, 9-28

- Range, mask spacing, 9-15
- Range, maximum, Real Time Display, 8-5
- Ranges, Real Time Display menu, 8-3
- Raw-Product, file space allocation, 9-43
- RCP
 - external mode change, 9-41
 - status field, 2-9 , 2-11
 - reset button, 2-9
 - shutdown status, 9-33
 - testing, 4-1
- RCP8
 - network interface, 11-1
 - serial interface, 11-13
- Real Time Display, 8-1
 - menu features, 8-2
- Receiver, losses, 9-10
- Reference height, 9-62
- Repair, setup errors, 9-3
- Reports, network status, 9-34
- RHI
 - elevation speedup ration, 9-53
 - Real Time Display menu, 8-3
- RST, reporting modes, 9-35
- Running utilities, 1-8
 - utils menu, 1-9

S

- Safety interlock, status, 9-34
- SAMPLE.RES, overlay file, 7-16
- Saturation, color, 5-6
- Scanning, options, 9-52
- Sensitivity Time Control. *See* STC
- Servo power
 - button, 2-7
 - control, 9-30
 - status, 9-32
- Set Colors, Real Time Display menu, 8-3
- Set time button, 2-12
- Setup
 - command line option, 4-2
 - listing file, 9-3
- setup utility, Real Time Display, 8-8
- Shipboard systems, 2-16
- show_machine_code command, 9-49

Siggen
 calibration file, 12–18
 continuous wave control, 9–31
 continuous wave status, 9–32
Signal, network warnings, 9–42
Signal generator, button, 2–7
Signal generator
 control, 9–31
 power output, 9–29
 status, 9–32
Signal processor
 options, 9–12
 overview, 1–6
Site
 name, 9–49
 name/code, 9–47
 number for AWS, 9–78
Site ID, Real Time Display menu, 8–4
Socket, external mode change, 9–41
Speech, output for message types, 9–42
SQI, threshold, 3–13
Stable platform, 2–16
Status
 bit, definitions, 9–32
 field, 2–5
 histograms, 4–6
Status LED, Real Time Display menu, 8–4
Status product, external mode change, 9–41
STC, gain control, 9–17
 status display, 3–7
Stop
 button, 2–4
 light, 2–4
Sun Tracking
 button, 2–5
 mode, 2–4 , 2–14
Suncal utility, 10–1
System time, 9–40

T

T/R
 computer mode, 2–8
 IRIS mode, 2–8
 local mode, 2–8

 local mode status, 9–34
 power control, 9–30
 power field, 2–6
 power status, 9–32
Tag lines, type of angle syncing, 9–51
Test signal, losses, 9–10
Testing
 Digital Signal Simulator, 3–33
 safeguards, 2–13
Threshold, color, 5–6
Time
 coasting between tasks, 9–54
 elapsed since last report, 2–11
 error, 2–11
 of last report, 2–11
 Real Time Display, 8–4
 reset, 2–12
 series at selected range plot, 3–20
 update field, 2–11
 warmup & settle for signal generator, 9–29
Time zone, 9–40
Timezone, in time packets, 9–24
TRACK, maximum time difference, 9–65
Transmitter
 power loss, 9–10
 pulsewidth power, 9–16
 radiation control, 9–30
 radiation status, 9–32
 standby status, 9–34
 warm-up, idle time, 9–57
 wavelength, 9–8

U

UDP, port number, 9–20
Underlay, defining in overlay file, 7–13
Units, number of field, 4–9
Unrecognized site code, 9–47

V

Velocity
 actual, 2–5
 fallspeed correction, 9–60
 mode, 2–4
 requested, 2–5

sign, 9–12
unfolding, 9–59

W

WARN

centroid value signal, 9–66
maximum time difference, 9–65

Warning

disable field, 4–13
flag field, 4–13
regions, 9–67

Waveguide pressure

status, 9–33
status indicator, 2–8

Wavelength transmission, 9–8

Web, setups, 9–79

Window

output device, 9–70
password, 9–49
power spectrum, 9–12

Window alerts, 9–46

Z

Z/R relationship, 9–61

Zauto7 utility, 12–1

zcalib.conf, config file, 12–13

ZDR, offset, 9–6